

ABSTRACT OF THE DISCLOSUREBRAIDED-WIRE NUCLEAR FUEL AND METHOD FOR PRODUCTION
THEREOF

The invention relates to a high-density fissile material nuclear fuel in the form of an assembly (1) of elementary wires, most of which are constituted by fissile material, wherein said wires are assembled by stranding, braiding or weaving and said assembly is contained in a stainless ductile casing (2), which elementary wires are compressed by deforming said casing (2), and the elementary wires of fissile material are fine enough to allow for the size accommodation of the fuel under the effects of irradiation during burnup and for the gaseous fission products to be removed.

The invention also relates to a method for producing said nuclear fuel.

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Figure 1.

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